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Date: January 22, 2004

*Sonia V. McVean*  
Sonia V. McVean

**PATENT**  
50626.53

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Chun Ho FAN et al. Serial No.: 10/643,961 Filing Date: August 20, 2003 For: IMPROVED BALL GRID ARRAY PACKAGE AND PROCESS FOR MANUFACTURING SAME	Art Unit: 2812 Examiner: Not Assigned
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**COMMENTARY RE INFORMATION DISCLOSURE STATEMENT**

**Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

Dear Sir:

In accordance with 37 CFR §1.56, and in recognition of their duty to disclose to the United States Patent and Trademark Office relevant information known to be material to patentability, Applicants herewith submit a copy of the prior art 1-20 listed on the attached Information Disclosure Statement (Form PTO-1449). Applicants did not submit a copy of the prior art 21-24 as they are U.S. Applications currently pending. The statement is not a representation that all of the information cited is necessarily effective as prior art against the application.

Applicants respectfully request that the disclosed reference be made of record in the subject application.

Respectfully submitted,

Date: January 22, 2004

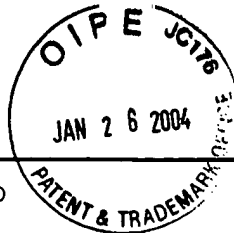
A handwritten signature in black ink, appearing to read "Christopher A. Bennett", written over a horizontal line.

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Substitute for form 1449/PTO

Complete if Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **1** of **2**

Application Number	<b>10/643,961</b>
Filing Date	<b>August 20, 2003</b>
First Named Inventor	<b>Chun Ho FAN</b>
Art Unit	<b>2812</b>
Examiner Name	
Attorney Docket Number	<b>50626.53</b>

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM -YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	<b>1</b>	<b>US-2001/0015492 A1</b>	<b>08/2001</b>	<b>Akram et al.</b>	
	<b>2</b>	<b>US 2002/0006718 A1</b>	<b>01/2002</b>	<b>Distefano</b>	
	<b>3</b>	<b>US-2002/0185734 A1</b>	<b>12/2002</b>	<b>Zhao et al.</b>	
	<b>4</b>	<b>2003/0034569 A1</b>	<b>02/2003</b>	<b>Caletka et al.</b>	
	<b>5</b>	<b>5,172,213</b>	<b>12/1992</b>	<b>Zimmerman</b>	
	<b>6</b>	<b>5,311,060</b>	<b>05/1994</b>	<b>Rostoker et al.</b>	
	<b>7</b>	<b>5,339,216</b>	<b>08/1994</b>	<b>Lin et al.</b>	
	<b>8</b>	<b>5,493,153</b>	<b>02/1996</b>	<b>Arikawa et al.</b>	
	<b>9</b>	<b>5,610,442</b>	<b>03/1997</b>	<b>Schneider et al.</b>	
	<b>10</b>	<b>5,639,694</b>	<b>06/1997</b>	<b>Diffenderfer et al.</b>	
	<b>11</b>	<b>5,650,663</b>	<b>07/1997</b>	<b>Parthasarathi</b>	
	<b>12</b>	<b>5,679,978</b>	<b>10/1997</b>	<b>Kawahara et al.</b>	
	<b>13</b>	<b>5,705,851</b>	<b>01/1998</b>	<b>Mostafazadeh et al.</b>	
	<b>14</b>	<b>5,986,885</b>	<b>11/1999</b>	<b>Wyland</b>	
	<b>15</b>	<b>6,236,568</b>	<b>05/2001</b>	<b>Lai et al.</b>	
	<b>16</b>	<b>6,251,706</b>	<b>06/2001</b>	<b>Paniccia</b>	
	<b>17</b>	<b>6,323,066</b>	<b>11/2001</b>	<b>Lai et al.</b>	
	<b>18</b>	<b>6,414,385</b>	<b>07/2002</b>	<b>Huang et al.</b>	
	<b>19</b>	<b>6,462,405</b>	<b>10/2002</b>	<b>Lai et al.</b>	
	<b>20</b>	<b>6,525,421</b>	<b>10/2002</b>	<b>Chia et al.</b>	

**FOREIGN PATENT DOCUMENTS**

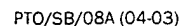
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM -YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number-Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	
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\*Examiner: Initial if reference considered, whether of not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

<sup>1</sup> Applicant unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Abstract is attached.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	<b>2</b>	of	<b>2</b>
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*Complete if Known*

Application Number	<b>10/643,961</b>
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First Named Inventor	<b>Chun Ho FAN</b>
Art Unit	<b>2812</b>
Examiner Name	
Attorney Docket Number	<b>50626.53</b>

## NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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